

## Satellite R10-S820 Detailed Product Specification<sup>1</sup>

Model Name	Description	Part Number	UPC
R10-S820	Microsoft® Windows® XP Tablet Edition 2005, Intel Pentium® M 735, 512MB DDR, 60GB(4200 RPM), CD-RW/DVD-ROM, 14.1" XGA, Intel® PRO/Wireless 2200BG (802.11b/g), IEEE® 1394, SD slot, 1-year standard limited warranty	PSR10U-0M600C	32017334410

### Operating System<sup>2</sup>

- Microsoft® Windows® XP Tablet Edition 2005

### Processor and Chipset<sup>3</sup>

#### Intel® Centrino™ Mobile Technology featuring:

- Intel Pentium® M Processor 735
  - 1.70GHz, 2MB L2, 400MHz FSB
- Intel 855GME Chipset
- Intel PRO/Wireless 2200BG (802.11b/g)

### Memory<sup>4</sup>

- Configured with 512MB DDR 333MHz SDRAM (both memory slots may be occupied)
- 512MB (Min)/2048MB (Max), 2 memory slots using 256MB, 512MB, or 1024MB PC2700 DDR 333MHz SDRAM 2.5V SODIMM memory modules

### Hard Disk Drive<sup>5</sup>

- 60GB (4200RPM); Enhanced IDE (ATA-6) hard disk drive; 9.5mm height; user removable

### Optical Disk Drive

- CD-RW/DVD-ROM drive maximum speed and compatibility:
  - CD-ROM (24x:read), CD-R (24x:write), CD-RW (10x:write), DVD-ROM (8x:read)

### Display<sup>6</sup>

- 14.1" diagonal TFT active-matrix LCD display at 1024x768 native resolution (XGA)

### Graphics<sup>7</sup>

- Intel Extreme Graphics 2 with 16MB-64MB dynamically allocated shared graphics memory

### Sound

- Analog Devices 1981B integrated software sound
  - Supports 3D Sound, Direct 3D Sound, DirectSound, Direct Music, MIDI (playback)
- Built-in microphone
- Sound Volume Control Dial
- Built-in stereo speakers
- SRS Labs audio enhancements
  - SRS TruSurround XT® virtual surround sound
  - SRS WOW™ stereo enhancement

### Input Devices

- Toshiba Digitizer Pen
- Keyboard
  - 85 key US keyboard
  - Hot Key Functions (Fn)
  - Windows Key Function
  - Application Key Function
- TouchPad™ Enable/Disable (FN+F9 or by help of software) pointing device

#### Control Buttons:

- Windows security button
- ESC/Display Rotation button
- Cross Functional button

### Communications

- Toshiba V.92 software modem<sup>8</sup>
- Intel PRO/100 VE Network Connection - 10/100 Base-TX Ethernet
- Integrated Intel Pro/Wireless Network Connection 2200BG (802.11b/g)<sup>9</sup>

### Expandability

- 2 main memory slots. Both slots may be occupied.
- 1 PC Card slot support 1 Type II, PCMCIA R2.01, PC Card16, CardBus
- Secure Digital slot (supports SDIO)

### Ports

- RGB (monitor) port
- TV-out (S-Video)
- i.LINK™IEEE-1394
- 3 Universal Serial Bus (USB) ports (v2.0)
- External Microphone jack
- Headphone jack
- RJ-45 LAN port
- RJ-11 modem port
- 240-pin docking connector
- Additional ports supported on optional Advanced Port Replicator III:
  - Parallel
  - RGB (monitor) port
  - i.LINK™ IEEE-1394
  - RJ-45 LAN port
  - RJ-11 modem port
  - 4 Universal Serial Bus (USB) ports (v2.0)
  - Audio line-in and line-out

### Physical Description for this Product Series

- Dimensions (WxDxH Front/H Rear): 12.9" (328.0mm) x 11.4" (289.7mm) x 1.45" (36.9mm)[F]/1.51 (38.4mm)[R] without feet
- Weight: Starting at 6.13 lbs (2.78 kg) depending upon configuration<sup>10</sup>
- Indicators: DC-In, Power/Sleep, Hard Drive, CD-DVD ROM Access, Caps Lock, Numeric Lock, Scroll Lock, Battery Charging Status, Wireless
- Chassis Description
  - Case material: Magnesium Alloy/Polycarbonate ABS
  - LCD Cover Color: Aluminum Silver
- Physical Security
  - Slot for cable lock;
  - Items protected by a screw: HDD, Memory, Selectable Bay
- Software Security
  - Passwords: User power-on password, supervisor password
  - Hotkey locks: Keyboard Lock, Screen Blank

## Power Supply

- 60W (15V x 4A) Auto sensing external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input
- Dimensions (WxDxH): 4.38" (111.5mm) x 1.14" (29.0mm) x 1.94" (49.5mm)
- Weight: starting at 0.57 lbs (262g)

## Battery<sup>11</sup>

- 6-cell (4700mAh) rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Dimensions (WxDxH): 4.92" (125.1mm) x 2.68" (68.1mm) x 0.80" (20.4mm)
- Weight: starting at 0.74 lbs (338 g)
- Battery Life (measured by MobileMark™)<sup>12</sup>
  - Included 6-cell battery: 4 hours, 13 minutes
- Recharge Time
  - Main Battery Off/On – approximately 3.0 hrs/approximately 5.5 to 13.0 hrs

## BIOS

- APM, ACPI, PNP, VESA, DPMS, DDC, SM BIOS v2.3, PCI BIOS v2.1 support

## Software<sup>13</sup>

- Toshiba Software and Utilities
  - TOSHIBA ConfigFree®
  - TOSHIBA Custom Utilities
  - Electronic User's Guide
  - Toshiba Speech System
  - Toshiba Touch and Launch
- Third-party Software
  - Microsoft Office® OneNote® 2003
  - Microsoft Works®
  - Zinio Reader
  - McAfee AntiVirus
  - Intuit® Quicken® New User Edition 2004
  - Adobe® Acrobat® Reader
  - InterVideo® WinDVD® 5
  - InterVideo® WinDVD Creator 2 Platinum
  - Sonic Solutions® RecordNow!™ Basic for Toshiba
  - Sonic Solutions® Drive Letter Access™ (DLA)
  - Microsoft® Windows Media Player
  - AOL® Internet Service (90-day trial)<sup>14</sup>
  - AT&T® Worldnet® Service (30-day trial)<sup>15</sup>

## Environmental Specifications

	Operating	Non-operating
Temperature <sup>16</sup>	5° to 35° C (41° to 95° F)	-20° to 65° C (-4° to 149° F)
Thermal Gradient	15° C per hour (max)	20° C per hour (max)
Relative Humidity (non-condensing)	20% to 80%	10% to 90%
Altitude (relative to sea level)	-60 to 3,000 meters	-60 to 10,000 meters
Shock	10G	60G
Vibration	0.5G	1.0G

## SATELLITE – 1 YEAR STANDARD LIMITED WARRANTY<sup>17</sup>

### Service Upgrades and Extensions

Toshiba offers many different enhanced services such as SystemGuard®, At-Home Repair, and Service Express to provide additional support to your notebook PC. For a full description and complete list of programs and program extensions, please visit [www.pcsupport.toshiba.com](http://www.pcsupport.toshiba.com)

## Recommended Services

### Extended Service Plan

Extends the standard limited warranty for up to 3 years from the original notebook purchase date.

Part Number	Description
WSN-PEQQ2V	2nd Year Extended Service Plan
WSN-PEQQ3V	2nd/3rd Year Extended Service Plan

### SystemGuard Accidental Damage Service w/ ServiceExpress<sup>18</sup>

Provides advanced protection from damage caused from handling. Select your express repair service with either Depot Express or Carry-In Express and go to the front of the line. Extended Service Plan included except with 1 Year plan. SystemGuard coverage must be purchased within the first 30 days of notebook purchase.

Part Number	Description
WSN-PSGQ1V	1st Year
WSN-PEGQ2V	1st/2nd Year + Extended Service Plan
WSN-PEGQ3V	1st/2nd/3rd Year + Extended Service Plan

### SystemGuard Accidental Damage Service + At-Home Repair<sup>19</sup>

Combines SystemGuard and At-Home Repair coverage. Extended Service Plan included except with 1 Year plan. SystemGuard coverage must be purchased within the first 30 days of purchase.

Part Number	Description
WSN-PSGH1V	1st Year
WSN-PEGH2V	1st/2nd Year + Extended Service Plan
WSN-PEGH3V	1st/2nd/3rd Year + Extended Service Plan

### ServiceExpress

Select your express repair service with either Depot Express or Carry-In Express. Depot Express: Your notebook will be repaired and returned via overnight shipment (excluding weekends and holidays). Carry-In Express: Take your notebook into a Premier ASP and go to the front of the line for expedited repair service. Extended Service Plan included except with 1 Year plan.

Part Number	Description
WSN-PSQP1V	1st Year
WSN-PEQP2V	1st/2nd Year + Extended Service Plan
WSN-PEQP3V	1st/2nd/3rd Year + Extended Service Plan

### At-Home Repair

On-site service will be provided at customer's home location (excluding weekends and holidays) to perform the necessary hardware repairs. Extended Service Plan included except with 1 Year plan.

Part Number	Description
WSN-PSQH1V	1st Year
WSN-PEQH2V	1st/2nd Year + Extended Service Plan
WSN-PEQH3V	1st/2nd/3rd Year + Extended Service Plan

## Accessories

For additional and most updated accessories, please visit [www.accessories.toshiba.com](http://www.accessories.toshiba.com)

## Power

Part Number	Description
PA3283U-3ACA	Toshiba 75W Global AC Adapter, RoHS
PA3191U-5BRS	Toshiba Primary Li Ion Battery Pack (6 Cell), RoHS
PA3091U-1CHG	Toshiba Battery Charger w/Integrated AC Adapter

## Expansion

Part Number	Description
PA3314U-1PRP	Toshiba Advanced Port Replicator III w/75W AC Adapter
PA3359U-1DV2	Toshiba Slim SelectBay DVD SuperMulti Drive Kit(Blk)

## Security & Protection

Part Number	Description
PA1370U-1ETC	Toshiba Keyboard Protector
PA410U	Targus DEFCO CL Cable Lock

## Storage

Part Number	Description
PA3109U-3FDD	Toshiba USB Floppy Disk Drive Kit
PA3306U-1H60	Toshiba 60GB HDD Kit, (with Bracket) 7200 rpm (P-ATA)*
PA3406U-1HA0	Toshiba 100GB HDD Kit, (with Bracket) 5400 rpm (P-ATA)*
PA3134U-1ETC	Toshiba Slim SelectBay HDD Adapter (Black Bezel)
* Cannot be used as Primary HDD	

## Carrying Cases

Part Number	Description
PA1388U-1NCS	Toshiba 3-in-1 Portfolio Leather

## Wireless/Bluetooth

Part Number	Description
PA3455U-1BTM	Toshiba USB Adapter with Bluetooth™ 2.0+EDR Capability

## Input Devices

Part Number	Description
PA3316U-2ETC	Toshiba Tablet PC Pen II
PA3317U-1ETC	Toshiba Tablet PC Reserve Pen
PA1357U-3ETC	Toshiba Tablet Pen Tether DLX

## Subject to Change

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at <http://www.pcsupport.toshiba.com>

## Return Policy

Notwithstanding anything to the contrary in any third party License Agreement or product documentation supplied with your PC, Toshiba America Information Systems, Inc. ("TAIS") does not accept the return of component parts, or bundled software, that have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

Toshiba America Information Systems, Incorporated ("TAIS")

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Irvine CA 92618

ToshibaDirect website: <http://www.toshibadirect.com>

TAIS website for resellers: <http://sell.toshiba.com>

TAIS PC Support website: <http://pcsupport.toshiba.com>

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<sup>1</sup> **Product Series Legal Footnote.** The product specifications and configuration information are designed for a product Series. Your particular model may not have all the features and specifications listed or illustrated. For more detailed information about the features and specifications on your particular model, please visit Toshiba's Web site at [pcsupport.toshiba.com](http://pcsupport.toshiba.com).

**Product Offering Legal Footnote.** Toshiba America Information Systems, Inc. reserves the right to modify or withdraw this offer at anytime without notice.

<sup>2</sup> **Operating System.** Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

<sup>3</sup> **Processor (Central Processing Unit).**

CPU performance in your computer product may vary from specifications under the following conditions:

1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia, computer generated graphics or video applications
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of several applications or functionalities simultaneously
7. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
8. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86°F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please visit the Toshiba website at [www.pcsupport.toshiba.com](http://www.pcsupport.toshiba.com) for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. Use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product "Detailed Specs." Contact Toshiba Technical Service and Support for more information.

<sup>4</sup> **Memory (Main System).** Part of the main system memory may be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics may vary depending on the graphics system, applications utilized, system memory size and other factors.

<sup>5</sup> **Hard Disk Drive (HDD) Capacity.**

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1 Gigabyte (GB) means  $1000 \times 1000 \times 1000 = 1,000,000,000$  bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB =  $1024 \times 1024 \times 1024 = 1,073,741,824$  bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

<sup>6</sup> **Display.** Small bright dots may appear on your screen display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology.

When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

<sup>7</sup> **Graphics (Graphics Processing Unit).**

GPU performance may vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and may decrease considerably when operating in battery power mode.

<sup>8</sup> **Modem Speed.** Due to FCC limitations, speeds of 53 kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.

<sup>9</sup> **Wireless.** Wireless connectivity and some features may require you to purchase additional software, external hardware or services. Availability of public wireless LAN access points may be limited. The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed. To use the Atheros SuperAG™ or SuperG™ wireless function, if available, your client and access point must support the corresponding feature. Performance of these functions may vary depending on the format of data transmitted.

<sup>10</sup> **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

<sup>11</sup> **Battery Life.** Battery life may vary considerably from specifications depending on product model, configuration, applications, power management settings and features utilized, as well as the natural performance variations produced by the design of individual components. Published battery life numbers are achieved on select models and configurations tested by Toshiba at the time of publication. See "Detailed Specs" for specific battery measurement test. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at [www.accessories.toshiba.com](http://www.accessories.toshiba.com).

<sup>12</sup> **Battery Life - MobileMark™.** Measured by MobileMark. MobileMark is a trademark of the Business Applications Performance Corporation.

<sup>13</sup> **Software.** Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

<sup>14</sup> **AOL® Internet Service.** Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AK, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.

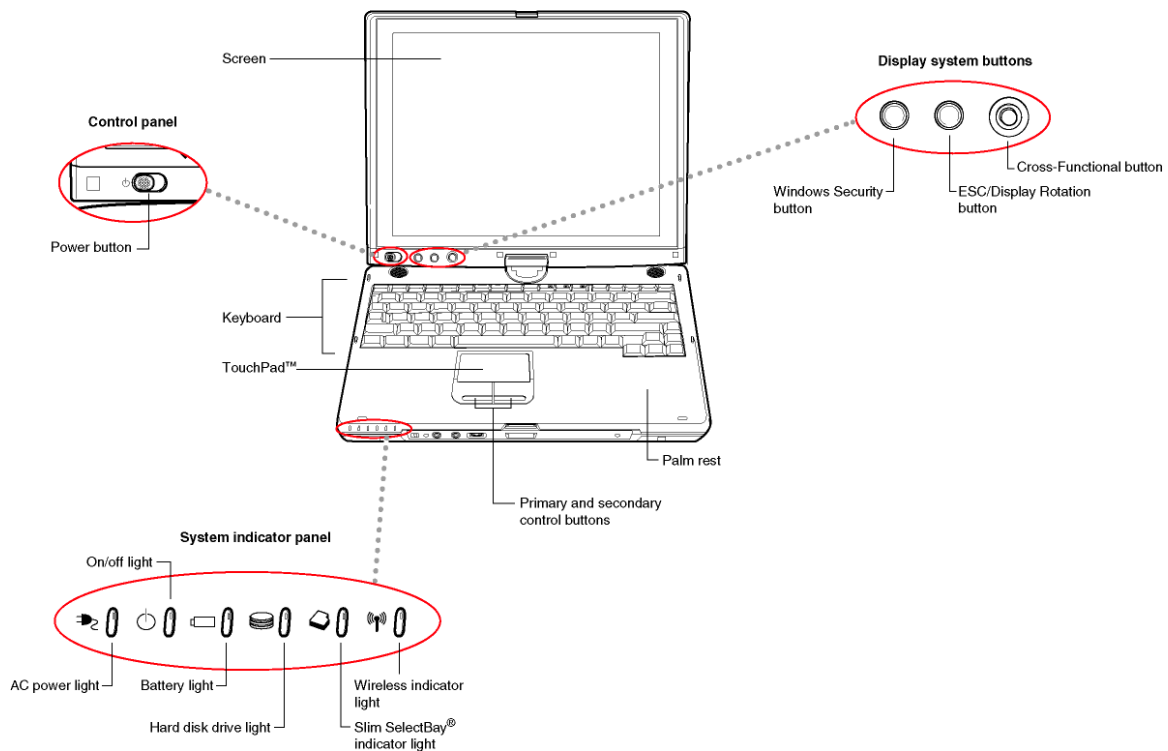
<sup>15</sup> **AT&T® Worldnet® Service.** Telephone access and other charges and other terms and conditions may apply. Offer available to new customers only.

<sup>16</sup> **Temperature (Environmental) Conditions.** All temperature references are approximate and the performance of your computer may vary from specifications even when operating within the recommended temperature range.

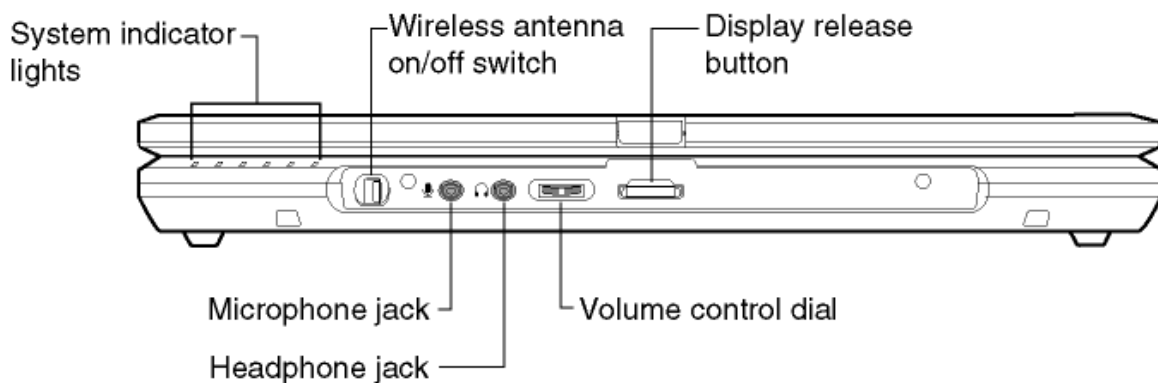
<sup>17</sup> **Warranty:** The terms and conditions of Toshiba's standard limited warranty are available at [www.warranty.toshiba.com](http://www.warranty.toshiba.com).

<sup>18</sup> **SystemGuard:** SystemGuard coverage must be purchased within the first 30 days of notebook purchase. See Toshiba Service Plan Agreement for program terms and conditions at [www.pcsupport.toshiba.com](http://www.pcsupport.toshiba.com).

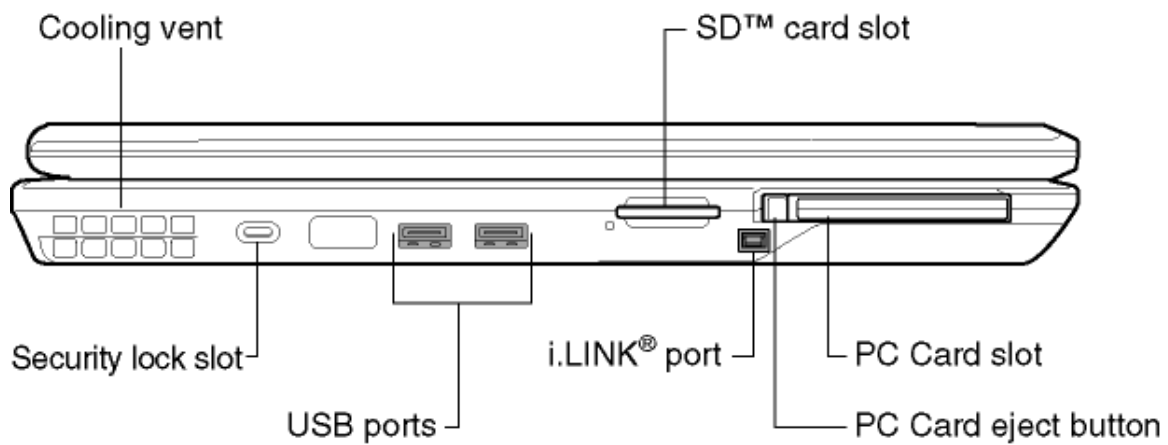
## Front with display open



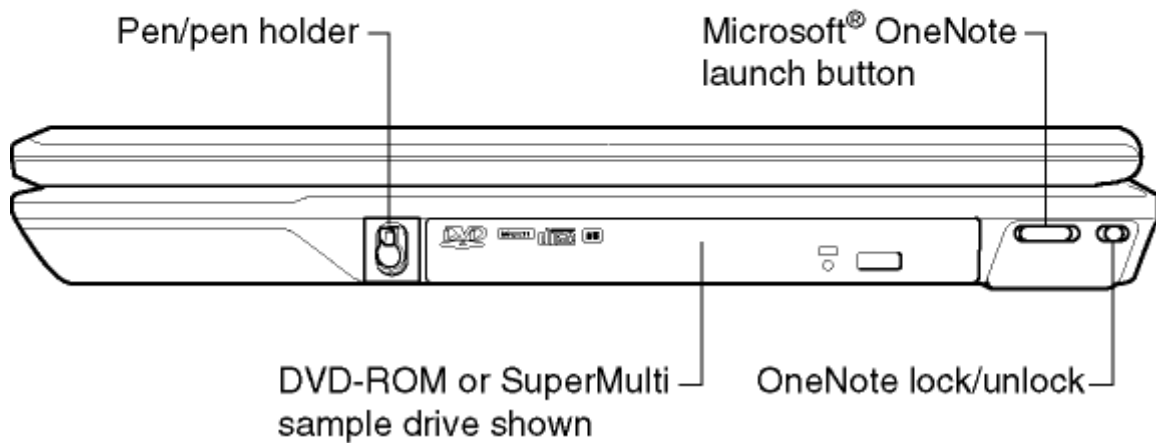
## Front with display closed



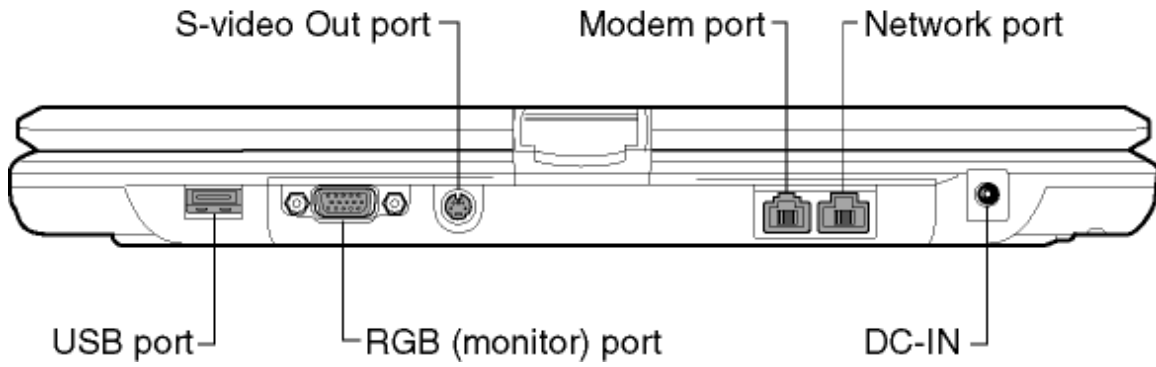
## Left side



## Right side



# Back



# Underside

